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| FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005) | | ATTORNEY'S DOCKET NUMBER NEK-0031 | |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) NYA 10/579250 | |
| INTERNATIONAL APPLICATION NO. PCT/KR2004/002952 | INTERNATIONAL FILING DATE 11-15-2004 | PRIORITY DATE CLAIMED 11-14-2003 | |
| TITLE OF INVENTION PVC-PCC NANOCOMPOSITES RESIN COMPOSITION WITH SUPERIOR IMPACT STRENGTHS AND METHOD FOR PREPARING THE SAME | | | |
| APPLICANT(S) FOR DO/EO/US Hee-Joo JEON, Kwang-Min PARK, Se-Hyun SHIN, Sung-Woo KIM | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. <input checked="" type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210). | | | |
| <p>Items 13 to 23 below concern document(s) or information included:</p> <ol style="list-style-type: none"> 13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 16. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter. 19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 22. <input checked="" type="checkbox"/> Express Mail Label No. EV826621675US | | | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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|---|--------------|--|----------------------------|--|-----------|
| U.S. APPLICATION NO (if known, see 37 CFR 1.5) 10/4579250 | | INTERNATIONAL APPLICATION NO. PCT/KR2004/002952 | | ATTORNEYS DOCKET NUMBER NEK-0031 | |
| 23. Other items or information: PCT Request Claim for Priority | | | | | |
| The following fees have been submitted: | | | | CALCULATIONS | PTO USE |
| 24. <input checked="" type="checkbox"/> Basic national fee | | | | \$ \$300 | |
| 25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article | | | | \$ \$200.00 | |
| All other situations..... | | | | \$ \$200 | |
| 26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).... | | | | \$ \$0 | |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority..... | | | | \$ \$100 | |
| International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB..... | | | | \$ \$400 | |
| All other situations..... | | | | \$ \$500 | |
| TOTAL OF 24, 25 and 26 = | | | | \$ \$1,000.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole) | | RATE | |
| 30 - 100 = | 0 /50 = | 0 | | x \$250.00 | \$ \$0.00 |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | 26 - 20 = | 6 | x \$50.00 | \$ \$300.00 | |
| Independent claims | 3 - 3 = | 0 | x \$200.00 | \$ \$0.00 | |
| MULTIPLE DEPENDENT CLAIMS (if applicable) | | | <input type="checkbox"/> + | \$ \$360.00 | \$ \$0.00 |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ \$1,300.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | \$ \$0.00 | |
| SUBTOTAL = | | | | \$ \$1,300.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | \$ \$0.00 | |
| TOTAL NATIONAL FEE = | | | | \$ \$1,300.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property + | | | | \$ \$0.00 | |
| TOTAL FEES ENCLOSED = | | | | \$ \$1,300.00 | |
| | | | | Amount to be | \$ |
| | | | | Amount to be | \$ |

10/579250

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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IAP9 Rec'd PCT/PTO 12 MAY 2006

- a. A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. Please charge my Deposit Account No. 06-1130 in the amount of \$ \$1,300.00 to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1130. A duplicate copy of this sheet is enclosed.
- d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

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Bloomfield, CT 06022
Telephone: (860) 286-2929
Fax: (860) 286-0115

SIGNATURE

Soonja Bae

NAME

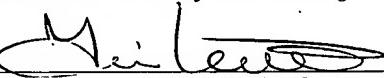
Limited Recognition No. L0017

REGISTRATION NUMBER

May 12, 2006

DATE

10/579250

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| CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) | | | | |
| Applicant(s): Hee-Joo JEON, et al. | | | NEK-0031 | |
| Application No. NYA | Filing Date 5-12-2006 | Examiner NYA | Customer No. 23413 | Group Art Unit NYA |
| Invention: PVC-PCC NANOCOMPOSITES RESIN COMPOSITION WITH SUPERIOR IMPACT STRENGTHS AND METHOD FOR PREPRING THE SAME | | | | |
| <p>I hereby certify that the following correspondence:</p> <p>Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371, PCT Appln., One Sheet of Drawings, Prelim. Amend., Dec/POA, Recordation Form Cover Sheet, Assignment, PCT Request, Claim for Priority, Int'l Preliminary Report On Patentability, Int'l Search Report, Authorization to debit and/or credit Deposit Acct. No. 06-1130 -Filing Fee-\$1300.00, Recordation Fee-\$40.00 and Postcard</p> <p style="text-align: center;"><i>(Identify type of correspondence)</i></p> <p>is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on</p> <p style="text-align: center;"><u>May 12, 2006</u> <i>(Date)</i></p> <p style="text-align: center;"><u>Tammie Lanthier</u> <i>(Typed or Printed Name of Person Mailing Correspondence)</i></p> <p style="text-align: center;"> <i>(Signature of Person Mailing Correspondence)</i></p> <p style="text-align: center;"><u>EV826621675US</u> <i>("Express Mail" Mailing Label Number)</i></p> <p style="text-align: center;">Note: Each paper must have its own certificate of mailing.</p> | | | | |